WHAT IS CLAIMED IS:

1. A method for transmitting an information on an image, comprising the steps of:

preparing:

a first image data formed of color components used to output an image in an output medium,

a second image data formed of color components of a color space enabling a measurement by a colorimeter for at least one color included in the image, and

a data on a position or an area of the image where a color corresponding to the second image data is present; and

transmitting these data.

2. A method according to claim 1, wherein the second image data includes a data obtained by actually measuring the image outputted in the output medium by a colorimeter.

3. A method according to claim 2, wherein the output medium includes an electronic display device.

4. A method according to claim 3, wherein an information on the output medium is further prepared and

transmitted.

5.   A   method   according   to   claim   2,   wherein   the output medium includes an image forming apparatus.

6.   A   method   according   to   claim   5,   wherein   an information   on   the   output   medium   is   further   prepared   and transmitted.

7.   A   method   according   to   claim   1,   wherein   the second image data includes a numerical data of colors set beforehand as color samples.

8. A method according to claim 1, wherein the second image data includes a data obtained by actually measuring a specified color sample by a colorimeter.

9. A method according to claim 8, wherein the color sample includes a color chart.

10. A method according to claim 8, wherein the color sample includes a color of an object sample.

11. An image information generating unit comprising:
an image display portion which displays an image;
an image data storage portion which stores a first

image data used to display an image on the image display portion;

a color designator which designates at least one color within the image displayed on the image display portion;

a position calculator which calculates a position data representing a position or an area in the image where the color designated by the color designator is present;

an image data input portion which inputs a second image data formed of color components of a color space enabling a measurement by a colorimeter for the color designated by the color designator; and

an image file generating portion which generates an image file by combining the first image data, the second image data and the position data.

12. An image information generating unit according to claim 11, further comprising an image file storage portion which stores the image file generated by the image file generating portion.

13. An image information generating unit according to claim 12, further comprising a transmitting portion which transmits the image file to an external device.

103

14. An image information generating unit according to claim 11, wherein the image data input portion includes a color measurement portion which measures a color value of the image displayed on the image display portion.

15. An image information generating unit according to claim 14, further comprising a color display portion which displays a designated color in a specified size in a specified area of the image display portion.

16. An image information generating unit according to claim 11, wherein the image data input portion includes a color measurement device which measures a color value of a specified color sample.

17. An image information generating unit according to claim 16, wherein the color sample includes a color chart.

18. An image information generating unit according to claim 16, wherein the color sample includes a color of an object sample.

19. An image information generating unit according to claim 18, further comprising a data correcting portion

which corrects the second image data measured by the color measurement portion so that a measurement specimen and an image displayed on the image display portion have a substantially equal degree of color adaptation which differs depending on observation conditions.

20. An image information generating unit according to claim 11, wherein the image data input portion includes a numerical data input portion which inputs a numerical data representing a color value of a specified color.

21. An image information generating unit according to claim 11, further comprising a color measurement position display portion which displays a color measurement position or a color measurement area in an image displayed on the image display portion when an image file is generated by the image file generating portion.

22. An image information generating unit according to claim 11, further comprising a palette display portion which displays a color possessing the second image data in palette format on the image display portion when an image file is generated by the image file generating portion.

23. An image information generating unit according to claim 11, wherein the information includes an information on the image display portion.

24. An image information generating unit according to claim 11, wherein the color designator is operable to designate a plurality of colors at once, further comprising an image file generation control portion which controls the position calculator, the image data input portion and the image file generating portion for each of colors designated by the color designator so as to successively generate image files for the respective designated colors.

25. A program for causing a computer to function as an image display portion for displaying an image, an image data storage portion for storing a first image data used to display the image on the image display portion, a color designator for designating at least one color within the image displayed on the image display portion, a position calculator for calculating a position data representing a position or an area in the image where the color designated by the color designator is present, an image data input portion for inputting a second image data formed of color components of a color space enabling

a measurement by a colorimeter for the color designated by the color designator, and an image file generating portion for generating an image file by combining the first image data, the second image data and the position data.

26. A computer-readable storage medium storing a program according to claim 25.

27. An image information output unit comprising:

an image information input portion which inputs an information on an image, the information including:

a first image data used to display the image on the image display portion,

a second image data formed of color components of a color space enabling a measurement by a colorimeter for at least one color included in the image, and

a data on a position or an area of the image where a color corresponding to the second image data is present;

an image information storage portion which stores the information inputted by the image information input portion;

an image display portion which displays the image using the first image data included in the information;

107

a color designator for designating a color possessing the second image data as a piece of the information;

a color measurement portion which measures a color value of the color designated by the color designator which color is in the image displayed on the image display portion; and

an image data correcting portion which compares a color value data outputted from the color measurement portion and the second image data corresponding to the color value data and included in the information and correcting the first image data included in the information so that an error between the two data is equal to or smaller than a predetermined threshold value.

28. An image information output unit according to claim 27, further comprising a data changing portion which changes the first image data included in the information stored in the image information storage portion to a first image data obtained after correction by the image data correcting portion.

29. An image information output unit according to claim 28, wherein the image information input portion includes a receiving portion which receives the information transmitted via data communication.

30. An image information output unit according to claim 28, wherein the image information input portion includes an information reading portion which reads the information from an external storage medium storing the information.

31. An image information output unit according to claim 28, further comprising a palette display portion which displays a color possessing the second image data in palette format on the image display portion based on the first image data included in the information.

32. An image information output unit according to claim 31, wherein the color designator designates one color from the colors displayed in palette format on the image display portion.

33. An image information output unit according to claim 28, further comprising a color display portion which displays a designated color in a specified size in a specified area of the image display portion for the color measurement of the color.

34. An image information output unit according to claim 28, further comprising a color measurement position

display portion which displays a position or an area where a designated color is present in the image displayed on the image display portion.

35. An image information output unit according to claim 28, wherein the information further includes an information on a display characteristic of an image display device for displaying the image based on the first image data, further comprising a data correcting portion which corrects the second image data included in the image information based on the information on the display characteristic of the image display device used at the time of generating the image information and the display characteristic of the image display portion so that the color appearance of the measured color displayed on the image display portion and that of the measured color outputted on the image display device are substantially equal.

36. An image information output unit according to claim 28, wherein the color designator is operable to designate a plurality of colors at once, further comprising an image data correction control portion which controls the color measurement portion, the image data correcting portion for each designated color so as to successively change the first image data for respective

designated colors when the image information inputted by the image information input portion includes the second image data and the position data for a plurality of colors and the color designator designates a plurality of colors at once.

37. An image information output unit comprising:

an image information input portion which inputs an information on an image, the information including:

a first image data used to display the image on an image display portion,

a second image data formed of color components of a color space enabling a measurement by a colorimeter for at least one color included in the image, and

a data on a position or an area in the image where a color corresponding to the second image data is present;

an image information storage portion which stores the information inputted by the image information input portion;

an image display portion which displays the image using the first image data included in the information;

a color measurement portion which measures color values of the image displayed on the image display portion;

an image data correcting portion which compares a color value data outputted from the color measurement portion and the second image data corresponding to the color value data and included in the information, and corrects the first image data included in the information so that an error between the two data is equal to or smaller than a predetermined threshold value; and

an image data correction control portion which successively changes the first image data for each of all the colors possessing the second image data by operating the color measurement portion and the image data correcting portion.

38. A program for causing a computer function as an image information input portion for inputting an information on an image including a first image data used to display the image on the image display portion, a second image data formed of color components of a color space enabling a measurement by a colorimeter for at least one color included in the image, and a data on a position or an area of the image where a color corresponding to the second image data is present, an image information storage portion for storing the information on the image inputted by the image information input portion, an image display portion for displaying the image using the first image data included

112

in the information on the image, a color designator for designating a color possessing the second image data in the information on the image, a color measurement portion for measuring a color value of the color designated by the color designator which color is in the image displayed on the image display portion, and an image data correcting portion for comparing a color value data outputted from the color measurement portion and the second image data corresponding to the color value data and included in the information on the image and correcting the first image data included in the information on the image so that an error between the two data is equal to or smaller than a predetermined threshold value.

39. A computer-readable storage medium storing a program according to claim 38.

40. An image information transmission system comprising:

an image information generating unit according to claim 13;

an image information output unit according to claim 29; and

a connection portion which connects the image information generating unit and the image information

113

output unit in such a manner as to enable a communication therebetween.

41. An image information transmission system according to claim 40, wherein the connection portion includes a communication network.

42. An image information transmission system according to claim 41, wherein the image information output unit transmits to the image information generating unit an information representing that a color value created in the image information generating unit is reproduced.